



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

To,

Date: 24-07-2021

ASSISTANT EXECUTIVE ENGINEER

VIDYARANYAPURA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of "DEVELOPMENT OF PARKS AND PROVIDING CHILDREN PLAY AND GYM EQUIPMENTS AT HMT LAYOUT IN WARD NO 09 (VIDYARANYAPURA)."

Ref: 1. Work Order No: BBMP/EE/BTP/WO/192/2020-21

2. Job code: 009-21-000007

We are herewith forwarding to Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.1,01,80,702.00/- (Rs. One Crore One Lakhs Eighty Thousand Seven Hundred and Two Only).

Thanking you,

Yours faithfully,

For Civil Pro

R. KARTHIK RECHAN

AUTHORIZED SIGNATORY
CIVIL PRO

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Div
Bruhath Bengaluru Mahanagara Palika



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTES FOR MS BLOCK PIPE

Lab ID : CP-2021-07-23-22 **Date:** 06-03-21

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Project Name : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-03-21

Type of Sample : M.S Block Pipe

Reference to BIS codes : IS:1608-2005(RA 2011), IS 1599-2012.

Date of test : 04-03-21

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE				
Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm ²)	299	250N/mm ²	Satisfactory
2	Tensile Strength (N/mm ²)	509	410N/mm ²	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike



FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

QC ABSTRACT

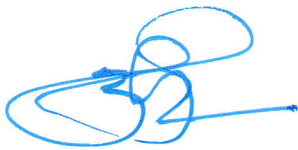
NAME OF WORK: Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyanarayapura).

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
3	Coarse aggregate(20 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	5 set /51-100 cum	64.26	10	10
9	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

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10	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
11	M.S Block Pipe	Yield Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
12	M.S. Rectangular pole	Weight/Meter	One Test		1	1
		Yield stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1




ASSISTANT EXECUTIVE ENGINEER
 Vidyanarayana Sub-Division
 Bruhath Bengaluru Mahanagara Palike





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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-07-23-22 Date: 27-02-21
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyanayapura).
Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/192/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-02-21
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 25-02-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	—
2	Finess by Air permeability method (m ² /kg,Min)	284.5	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Vidyanayapura Sub-Division
Bruhat Bangalore Mahanagara Palike

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-07-23-22 **Date:** 25-03-21
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).
Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/192/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-02-21
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 25-02-21
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.

Note:

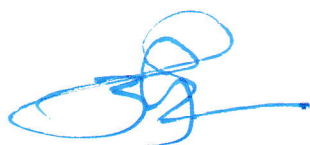
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-07-23-22 Date: 27-02-21

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyanayapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 24-02-21

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 24-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-07-23-22

Date: 27-02-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	—
4	Bulk Density(Loose) (Kg/l)	1.49	—
5	Bulk Density(Compacted) (Kg/l)	1.52	—
6	Water Absorption(%)	0.17	—

* The results obtained are satisfactory as per standard requirements.

Note:

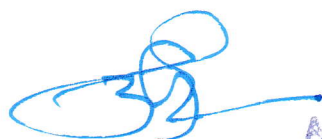
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-07-23-22 Date: 26-02-21
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyanayapura).
Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer Reference : BBMP/EE/BTP/WO/192/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-02-21
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 24-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	—

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-07-23-22

Date: 26-02-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.57	—
6	Water Absorption(%)	0.19	—
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

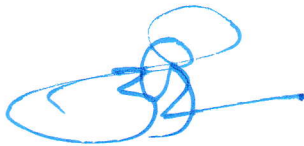
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Authorized Signature
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-07-23-22 Date: 26-02-21

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-02-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 24-02-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Vidyaranyapura Sub-Division
Bh. 4th Bangalore Mahanagara Palike



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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-07-23-22

Date: 26-02-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

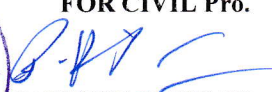
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Bruhath Bengaluru Mahanagara Palike**FOR CIVIL Pro.**

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-07-23-22 Date: 02-03-21

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-02-21

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 26/02/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Vidyaranyapura Sub-Division
Bruhat Bengaluru Mahanagara Palike

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****End of Report****



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Authorized Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2021-07-23-22 **Date:** 01-03-21

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-02-21

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/02/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2021-07-23-22 Date: 01-03-21

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-21

Sample Type/Size : Solid concrete blocks size (400X200X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 25-02-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	398	203	199	16078	33.440	2079.9	2087.1	Not less than 1800Kg/m ³
2	398	203	200	16159	33.658	2083.0		
3	398	199	200	15840	33.239	2098.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL

Lab ID : CP-2021-07-23-22

Date: 01-03-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	202	201	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	401	199	202	
3	403	202	199	
4	400	202	203	
5	403	199	201	
6	403	199	199	
7	403	202	202	
8	400	200	200	
9	400	202	203	
10	401	199	202	
11	400	200	200	
12	403	200	203	
13	401	201	199	
14	403	201	201	
15	400	201	202	
16	400	203	203	
17	399	200	200	
18	402	201	202	
19	401	202	203	
20	404	200	203	
Average of 20	401	201	201	

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 Vidyanarayana Sub Division
 Bruhath Bengaluru Mahanagara Palike



Lab ID : CP-2021-07-23-22

Date: 01-03-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	202	80826	375.8	4.6	4.7
2	401	199	79920	380.1	4.8	
3	403	202	81438	377.4	4.6	
4	400	202	80660	374.1	4.6	
5	403	199	80300	380.9	4.7	
6	403	199	80333	376.1	4.7	
7	403	202	81299	377.1	4.6	
8	400	200	80147	379.3	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

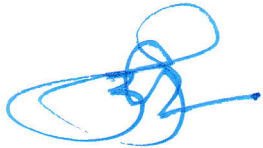
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ASSISTANT EXECUTIVE ENGINEER
 Vidyanarayapura Sub-Division
 Bruhath Bengaluru Mahanagara Palike



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R KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-07-23-22 **Date:** 13/03/2021

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	13/03/2021	151.70 X 151.18 X 149.26	22934	8.307	291.8	12.7	12.7
2	PCC	M15	06/03/2021	13/03/2021	149.32 X 150.47 X 150.04	22468	8.291	286.3	12.7	
3	PCC	M15	06/03/2021	13/03/2021	149.39 X 149.43 X 150.27	22324	8.487	285.0	12.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Vidyaranyapura Sub-Division
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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL

WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-07-23-22 **Date:** 03/04/2021
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyanayapura).
Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/192/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-03-21
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 03/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	03/04/2021	151.47 X 150.15 X 151.64	22742	8.643	390.2	17.2	17.5
2	PCC	M15	06/03/2021	03/04/2021	151.42 X 151.35 X 149.66	22918	8.629	407.6	17.8	
3	PCC	M15	06/03/2021	03/04/2021	151.35 X 149.59 X 149.61	22640	8.190	398.6	17.6	

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 Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-07-23-22 Date: 13/03/2021

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyanarayapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	13/03/2021	151.08 X 150.16 X 150.92	22687	8.307	278.3	12.3	12.1
2	PCC	M15	06/03/2021	13/03/2021	150.20 X 151.58 X 150.10	22766	8.291	273.6	12.0	
3	PCC	M15	06/03/2021	13/03/2021	149.18 X 150.33 X 150.87	22427	8.487	271.9	12.1	

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-07-23-22 **Date:** 03/04/2021
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).
Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/192/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-03-21
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 03/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	03/04/2021	150.32 X 151.79 X 151.42	22817	8.643	406.2	17.8	17.6
2	PCC	M15	06/03/2021	03/04/2021	151.54 X 151.71 X 150.57	22991	8.629	397.7	17.3	
3	PCC	M15	06/03/2021	03/04/2021	149.07 X 150.44 X 151.61	22427	8.190	398.1	17.8	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-07-23-22 Date: 13/03/2021

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	13/03/2021	151.22 X 151.45 X 149.25	22903	8.307	297.1	13.0	12.8
2	PCC	M15	06/03/2021	13/03/2021	150.92 X 149.87 X 151.34	22620	8.291	293.4	13.0	
3	PCC	M15	06/03/2021	13/03/2021	149.49 X 151.32 X 149.78	22622	8.487	279.7	12.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

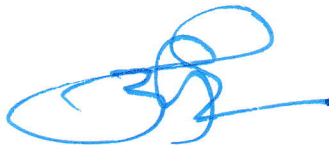
Lab ID : CP-2021-07-23-22 **Date:** 03/04/2021
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).
Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/192/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-03-21
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 03/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	03/04/2021	151.88 X 149.59 X 150.56	22719	8.643	396.2	17.4	17.4
2	PCC	M15	06/03/2021	03/04/2021	150.86 X 151.88 X 150.78	22912	8.629	397.4	17.3	
3	PCC	M15	06/03/2021	03/04/2021	149.48 X 149.70 X 150.06	22377	8.190	392.4	17.5	

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-07-23-22 **Date:** 13/03/2021

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	13/03/2021	151.42 X	22807	8.307	295.4	13.0	12.8
					150.62 X					
					151.96					
2	PCC	M15	06/03/2021	13/03/2021	150.49 X	22430	8.291	283.1	12.6	
					149.05 X					
					149.05					
3	PCC	M15	06/03/2021	13/03/2021	150.31 X	22466	8.487	287.7	12.8	
					149.47 X					
					149.84					

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ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike



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Authorized Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL

WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-07-23-22 **Date:** 03/04/2021
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).
Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference : BBMP/EE/BTP/WO/192/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-03-21
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 03/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	03/04/2021	150.89 X	22618	8.643	404.1	17.9	17.9
					149.90 X					
					149.30					
2	PCC	M15	06/03/2021	03/04/2021	150.73 X	22789	8.629	406.3	17.8	
					151.19 X					
					149.76					
3	PCC	M15	06/03/2021	03/04/2021	149.71 X	22606	8.190	404.8	17.9	
					151.00 X					
					150.59					

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 Vidyaranyapura Sub-Division
 Bruhath Bengaluru Mahanagara Palike


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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-07-23-22 Date: 13/03/2021

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyananyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	13/03/2021	151.98 X 149.82 X 150.57	22770	8.307	278.7	12.2	12.3
2	PCC	M15	06/03/2021	13/03/2021	150.86 X 151.40 X 150.45	22840	8.291	275.2	12.0	
3	PCC	M15	06/03/2021	13/03/2021	151.20 X 150.98 X 150.15	22828	8.487	288.4	12.6	

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Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-07-23-22 **Date:** 03/04/2021

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

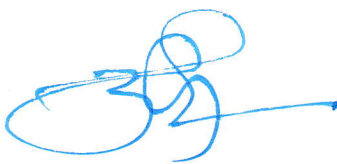
Date of test : 03/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	06/03/2021	03/04/2021	151.45 X 150.73 X 151.34	22827	8.643	400.8	17.6	17.5
2	PCC	M15	06/03/2021	03/04/2021	151.85 X 151.36 X 149.31	22985	8.629	397.1	17.3	
3	PCC	M15	06/03/2021	03/04/2021	151.99 X 149.62 X 151.13	22740	8.190	401.9	17.7	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID : CP-2021-07-23-22 Date: 06-03-21
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).
Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer Reference : BBMP/EE/BTP/WO/192/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-03-21
Sample Type/ Size : Precast concrete blocks for paving
Reference to BIS codes : IS 15658:2006
Date of test : 01-03-21

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm ²)	(N/mm ²)
1	197.22	159.88	60.99	32.5	33.1
2	198.48	159.64	60.25	33.8	
3	199.54	159.54	60.48	32.5	
4	197.68	159.22	60.55	33.5	
5	198.11	159.87	60.32	32.8	
6	198.18	160.02	60.11	33.4	
7	198.45	158.99	60.98	33.2	
8	197.22	159.22	60.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.85	3.29	3.64
2	4.898	4.721	60.22	3.75	
3	4.988	4.802	60.44	3.87	

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Certificate No.: TC-5548

TEST RESULTS FOR MS RECTANGULAR POLE

Lab ID : CP-2021-07-23-22 **Date:** 05-03-21

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-03-21

Type of Sample : M.S Rectangular Pole(65X65X6)mm

Reference to BIS codes : IS:1608-2005(RA 2011), IS 1599-2012.

Date of test : 03-03-21

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER				
SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.81	5.8 Kg/m	Satisfactory
2	Yield stress (N/mm ²)	278	250N/mm ²	Satisfactory
3	Tensile Strength (N/mm ²)	485	410N/mm ²	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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Certificate No.: TC-5548

TEST RESULTS FOR CHAIN LINK FENCING

Lab ID : CP-2021-07-23-22 **Date:** 05-03-21
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Development of Parks and Providing children Play and Gym Equipments at HMT Layout in Ward No 09 (Vidyaranyapura).
Agency : Sri.K.B Alankar, H.No:12, MSV Network Road, Near Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/192/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-03-21
Type of Sample : Chain Link Fencing
Reference to BIS codes : IS 2062:2011
Date of test : 03-03-21

TESTS RESULT FOR WIRE MESH		
SL.NO	Description	Result
1	Average Thickness in mm	4.04
2	Dia of linewire in mm	3.14
3	Mesh size in mm	50.01
4	Nominal dia of meshwire in mm	2.52
5	Bend Test	Satisfactory

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